

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A filler-containing modified polymer  
composition comprising:

100 parts by weight of a first-order modified, hydrogenated polymer (A-1),  
0.5 to 300 parts by weight of a reinforcing filler (B), and  
0.01 to 20 parts by weight of a second-order modifier (C) having a functional  
group which is reactive to a functional group of a modifier group of said first-order  
modified, hydrogenated polymer (A-1), wherein said second-order modifier (C) is at  
least one member selected from the group consisting of a functional monomer and a  
functional oligomer,

wherein said first-order modified, hydrogenated polymer (A-1) comprising  
comprises:

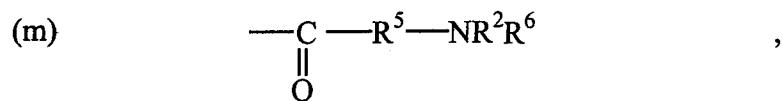
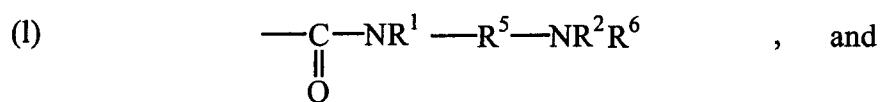
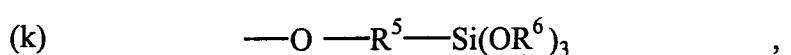
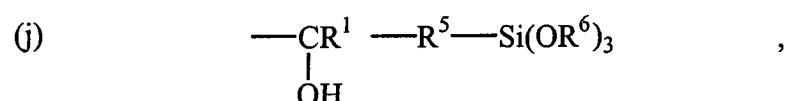
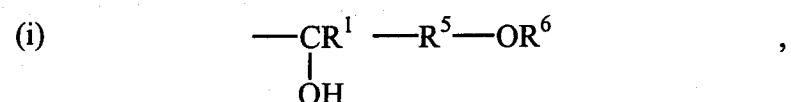
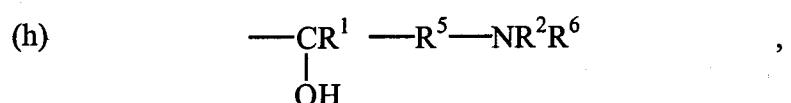
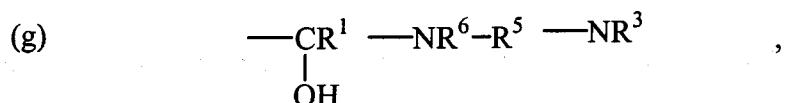
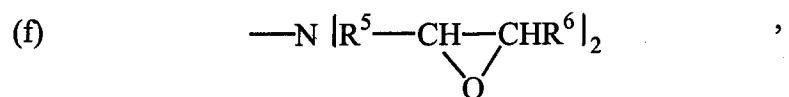
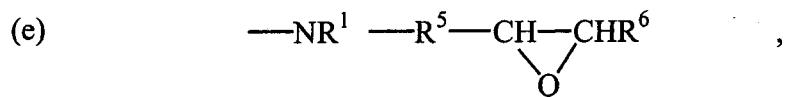
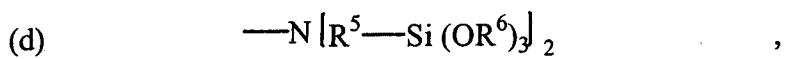
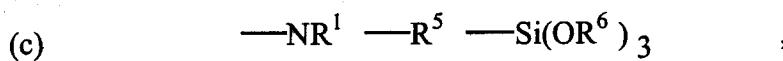
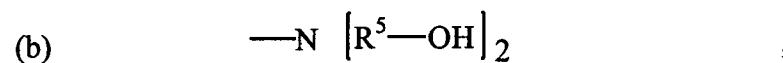
(1) a hydrogenated polymer obtained by hydrogenating at least one  
unhydrogenated polymer selected from the group consisting of (1-A) a polymer  
comprising conjugated diene monomer units and (1-B) a copolymer comprising  
conjugated diene monomer units and vinyl aromatic hydrocarbon monomer units, said  
copolymer (1-B) having no or at least one polymer block (H) of said vinyl aromatic  
hydrocarbon monomer units, and

(2) a functional group-containing first-order modifier group bonded to said  
hydrogenated polymer (1),

said first-order modified, hydrogenated polymer (A-1) having the following characteristics (i) to (iv):

- (i) a content of said vinyl aromatic hydrocarbon monomer units of from 0 to 60 % by weight, based on the weight of said hydrogenated polymer,
- (ii) a vinyl aromatic hydrocarbon block ratio of from 0 to less than 50 % by weight, wherein said vinyl aromatic hydrocarbon block ratio is defined as the percent by weight of the vinyl aromatic hydrocarbon monomer units contained in said at least one polymer block (H) of said vinyl aromatic hydrocarbon monomer units, based on the total weight of vinyl aromatic hydrocarbon monomer units contained in said copolymer (1-B),
- (iii) a weight average molecular weight of from 20,000 to 2,000,000, and
- (iv) a hydrogenation ratio of more than 70 %, as measured with respect to the double bonds in said conjugated diene monomer units,

wherein said functional group containing first-order modifier group (2) comprises at least one functional group represented by a formula selected from the group consisting of the following formulae (a) to (m):



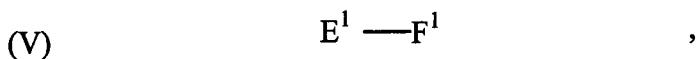
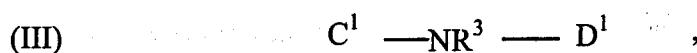
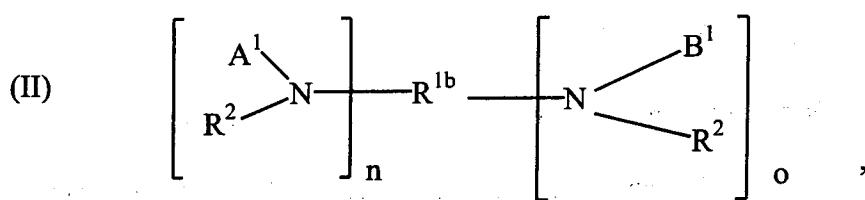
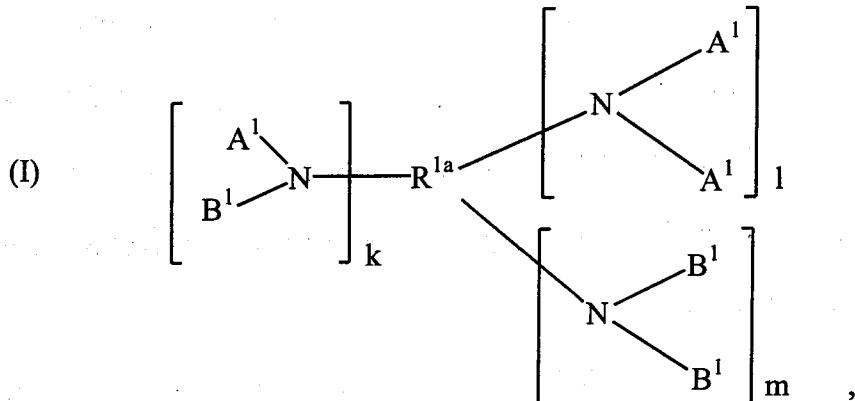
wherein, in the formulae (a) to (m):

N represents a nitrogen atom, Si represents a silicon atom, O represents an oxygen atom, C represents a carbon atom, and H represents a hydrogen atom,  
each of R<sup>1</sup> to [[R<sup>4</sup>]]R<sup>3</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>24</sub> hydrocarbon group which optionally has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxysilane group,  
each R<sup>5</sup> independently represents a C<sub>1</sub>-C<sub>48</sub> hydrocarbon group and optionally, independently has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxysilane group,  
each R<sup>6</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>8</sub> alkyl group,  
wherein each of R<sup>1</sup> to R<sup>5</sup> optionally, independently has bonded thereto at least one atom selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom and a silicon atom, said at least one atom being present in a linkage other than a hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxysilane group.

2. (Cancelled).

3. (Currently amended) The filler-containing modified polymer composition of claim 1, wherein said first-order modified, hydrogenated polymer (A-1)

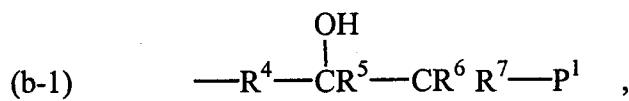
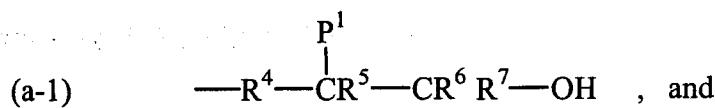
according to claim 1, which is represented by a formula selected from the group consisting of the following formulae (I) to (V):



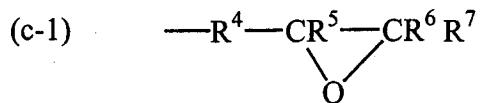
wherein:

$A^1$  represents a unit which is represented by any one of the following formulae

(a-1) and (b-1):

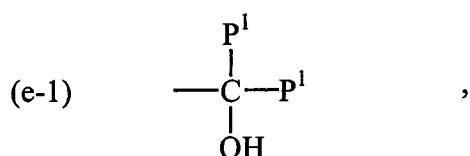
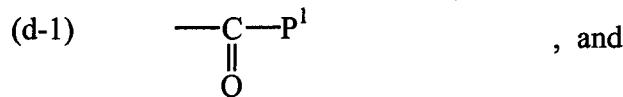


$\text{B}^1$  represents a unit which is represented by the following formula (c-1):

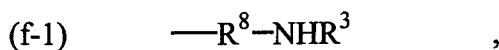


$\text{C}^1$  represents a unit which is represented by any one of the following formulae

(d-1) and (e-1):



$\text{D}^1$  represents a unit which is represented by the following formula (f-1):



$\text{E}^1$  represents a unit which is represented by the following formula (g-1):

(g-1)  $\text{—R}^9\text{—P}^1$  , and

$\text{F}^1$  represents a unit which is represented by any one of the following formulae

(h-1) to (j-1):

(h-1)  $\text{—NH—R}^{10}\text{—Si(OR}^{11}\text{)}_3$  ,

(i-1)  $\text{—CR}^{12}\text{—R}^{13}\text{—O—R}^{14}\text{—Si(OR}^{11}\text{)}_3$  , and

(j-1)  $\text{—CR}^{12}\text{—R}^{15}\text{—Si(OR}^{11}\text{)}_3$  ,

wherein, in the formulae (I) to (III) and (a-1) to (j-1):

N represents a nitrogen atom, Si represents a silicon atom, O represents an oxygen atom, C represents a carbon atom, and H represents a hydrogen atom,

$\text{P}^1$  represents said hydrogenated polymer (1),

$\text{R}^{1a}$  represents a trivalent aliphatic  $\text{C}_1\text{-C}_{48}$  hydrocarbon group,

each of  $\text{R}^{1b}$ ,  $\text{R}^4$ ,  $\text{R}^8$  to  $\text{R}^{10}$  and  $\text{R}^{13}$  to  $\text{R}^{15}$  independently represents a  $\text{C}_1\text{-C}_{48}$

alkylene group,

each of  $\text{R}^2$ ,  $\text{R}^3$  and  $\text{R}^{11}$  independently represents a  $\text{C}_1\text{-C}_{48}$  alkyl group, a  $\text{C}_6\text{-C}_{48}$  aryl group, an alkylaryl group comprised of  $\text{C}_1\text{-C}_{48}$  alkyl and  $\text{C}_6\text{-C}_{48}$  aryl, an aralkyl group comprised of  $\text{C}_1\text{-C}_{48}$  alkyl and  $\text{C}_6\text{-C}_{48}$  aryl, or a  $\text{C}_3\text{-C}_{48}$  cycloalkyl group,

wherein each of  $R^{1a}$ ,  $R^{1b}$ ,  $R^3$ ,  $R^4$ ,  $R^8$  to  $R^{10}$  and  $R^{13}$  to  $R^{15}$  optionally, independently has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a  $C_1$ - $C_{24}$  alkoxy silane group,

each of  $R^5$  to  $R^7$  and  $R^{12}$  independently represents a hydrogen atom, a  $C_1$ - $C_{48}$  alkyl group, a  $C_6$ - $C_{48}$  aryl group, an alkyl aryl group comprised of  $C_1$ - $C_{48}$  alkyl and  $C_6$ - $C_{48}$  aryl, an aralkyl group comprised of  $C_1$ - $C_{48}$  alkyl and  $C_6$ - $C_{48}$  aryl, or a  $C_3$ - $C_{48}$  cycloalkyl group,

wherein each of  $R^{1a}$ ,  $R^{1b}$ ,  $R^2$  to  $R^4$  and  $R^8$  to  $R^{15}$  optionally, independently has bonded thereto at least one atom selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom and a silicon atom, said at least one atom being present in a linkage other than a hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxy silane group, and

each of  $k$ ,  $l$ ,  $m$  and  $o$  is independently an integer of 0 or more, provided that both  $k$  and  $l$  are not simultaneously 0, and  $n$  is an integer of 1 or more.

4-5. (Cancelled).

6. (Currently amended) The filler-containing modified polymer composition according to claim 4 or 5 1, wherein said reinforcing filler (B) is at least one member selected from the group consisting of a silica inorganic filler, a metal oxide, a metal hydroxide and carbon.

7. (Currently amended) A crosslinked, filler-containing modified polymer composition obtained by subjecting the filler-containing modified polymer composition of ~~claim 4 or 5~~ anyone of claims 1, 3 and 6 to a crosslinking reaction in the presence of a vulcanizing agent.

8. (Currently amended) A modified polymer composition comprising: 1 to 99 parts by weight, relative to 100 parts by weight of the total of components (A-1) and (D), of ~~[[the]]~~ a first-order modified, hydrogenated polymer (A-1) ~~of claim 1~~, and

~~99 to 1 [[part]] parts~~ by weight, relative to 100 parts by weight of the total of components (A-1) and (D), of (D), which is at least one polymer selected from the group consisting of a thermoplastic resin other than said first-order modified, hydrogenated polymer (A-1) and a rubbery polymer other than said first-order modified, hydrogenated polymer (A-1), and

0.01 to 20 parts by weight, relative to 100 parts by weight of the total of components (A-1) and (D), of a second-order modifier (C) having a functional group which is reactive to a functional group of a modifier group of said first-order modified, hydrogenated polymer (A-1), wherein said second-order modifier (C) is at least one member selected from the group consisting of a functional monomer and a functional oligomer.

wherein said first-order modified, hydrogenated polymer (A-1) comprises:  
(1) a hydrogenated polymer obtained by hydrogenating at least one unhydrogenated polymer selected from the group consisting of (1-A) a polymer

comprising conjugated diene monomer units and (1-B) a copolymer comprising conjugated diene monomer units and vinyl aromatic hydrocarbon monomer units, said copolymer (1-B) having no or at least one polymer block (H) of said vinyl aromatic hydrocarbon monomer units, and

(2) a functional group-containing first-order modifier group bonded to said hydrogenated polymer (1),

said first-order modified, hydrogenated polymer (A-1) having the following characteristics (i) to (iv):

(i) a content of said vinyl aromatic hydrocarbon monomer units of from 0 to 60 % by weight, based on the weight of said hydrogenated polymer,

(ii) a vinyl aromatic hydrocarbon block ratio of from 0 to less than 50 % by weight, wherein said vinyl aromatic hydrocarbon block ratio is defined as the percent by weight of the vinyl aromatic hydrocarbon monomer units contained in said at least one polymer block (H) of said vinyl aromatic hydrocarbon monomer units, based on the total weight of vinyl aromatic hydrocarbon monomer units contained in said copolymer (1-B),

(iii) a weight average molecular weight of from 20,000 to 2,000,000, and

(iv) a hydrogenation ratio of more than 70 %, as measured with respect to the double bonds in said conjugated diene monomer units,

wherein said functional group containing first-order modifier group (2) comprises at least one functional group represented by a formula selected from the group consisting of the following formulae (a) to (m):

(a)  $\text{—NR}^1 \text{—R}^5 \text{—OH}$ ,

(b)  $\text{—N} \left[ \text{R}^5 \text{—OH} \right]_2$ ,

(c)  $\text{—NR}^1 \text{—R}^5 \text{—Si(OR}^6\text{)}_3$ ,

(d)  $\text{—N} \left[ \text{R}^5 \text{—Si(OR}^6\text{)}_3 \right]_2$ ,

(e)  $\text{—NR}^1 \text{—R}^5 \text{—CH} \begin{cases} \text{—} \\ \diagup \\ \text{O} \end{cases} \text{—CHR}^6$ ,

(f)  $\text{—N} \left[ \text{R}^5 \text{—CH} \begin{cases} \text{—} \\ \diagup \\ \text{O} \end{cases} \text{—CHR}^6 \right]_2$ ,

(g)  $\text{—CR}^1 \begin{cases} \text{—} \\ \diagdown \\ \text{OH} \end{cases} \text{—NR}^6 \text{—R}^5 \text{—NR}^3$ ,

(h)  $\text{—CR}^1 \begin{cases} \text{—} \\ \diagdown \\ \text{OH} \end{cases} \text{—R}^5 \text{—NR}^2 \text{R}^6$ ,

(i)  $\text{—CR}^1 \begin{cases} \text{—} \\ \diagdown \\ \text{OH} \end{cases} \text{—R}^5 \text{—OR}^6$ ,

(j)  $\text{—CR}^1 \begin{cases} \text{—} \\ \diagdown \\ \text{OH} \end{cases} \text{—R}^5 \text{—Si(OR}^6\text{)}_3$ ,

(k)  $\text{—O} \text{—R}^5 \text{—Si(OR}^6\text{)}_3$ ,

(l)  $\text{—C} \begin{cases} \text{—NR}^1 \text{—R}^5 \text{—NR}^2 \text{R}^6 \\ \parallel \\ \text{O} \end{cases}$ , and

(m)  $\text{—C} \begin{cases} \text{—R}^5 \text{—NR}^2 \text{R}^6 \\ \parallel \\ \text{O} \end{cases}$ ,

wherein, in the formulae (a) to (m):

N represents a nitrogen atom, Si represents a silicon atom, O represents an oxygen atom, C represents a carbon atom, and H represents a hydrogen atom,  
each of R<sup>1</sup> to R<sup>3</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>24</sub> hydrocarbon group which optionally has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxysilane group,

each R<sup>5</sup> independently represents a C<sub>1</sub>-C<sub>48</sub> hydrocarbon group and optionally, independently has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxysilane group,

each R<sup>6</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>8</sub> alkyl group,  
wherein each of R<sup>1</sup> to R<sup>5</sup> optionally, independently has bonded thereto at least one atom selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom and a silicon atom, said at least one atom being present in a linkage other than a hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxysilane group.

9. (Cancelled).

10. (Currently amended) The modified polymer composition according to claim 8 [[or 9]], wherein said rubbery polymer in component (D) comprises at least one member selected from the group consisting of a conjugated diene polymer comprising

conjugated diene monomer units, a random copolymer comprising conjugated diene monomer units and vinyl aromatic hydrocarbon monomer units, a block copolymer comprising conjugated diene monomer units and vinyl aromatic hydrocarbon monomer units, a non-diene polymer and a natural rubber,  
said rubbery polymer being unhydrogenated or at least partially hydrogenated.

11. (Currently amended) The modified polymer composition according to claim 8 [[or 9]], wherein said thermoplastic resin in component (D) is a functional group-containing thermoplastic resin and said rubbery polymer in component (D) is a functional group-containing rubbery polymer, wherein each of said functional group-containing thermoplastic resin and rubbery polymer contains at least one functional group which is reactive to said functional group of said first-order modifier group of said first-order modified, hydrogenated polymer (A-1).

12. (Previously presented) The modified polymer composition according to claim 11, wherein said functional group-containing thermoplastic resin is at least one member selected from the group consisting of a polyester resin, a polyamide resin, a polycarbonate resin, a polyurethane resin, a polyphenylene ether resin and a polyoxymethylene resin each of which contains at least one functional group selected from the group consisting of an acid anhydride group, a carboxyl group, a hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxy silane group.

13. (Currently amended) An adhesive composition comprising:  
100 parts by weight of [[the]] a first-order modified, hydrogenated polymer (A-1)  
of claim 1, and

20 to 400 parts by weight of (E) a tackifier[[.]]

wherein said first-order modified, hydrogenated polymer (A-1) comprises:

(1) a hydrogenated polymer obtained by hydrogenating at least one  
unhydrogenated polymer selected from the group consisting of (1-A) a polymer  
comprising conjugated diene monomer units and (1-B) a copolymer comprising  
conjugated diene monomer units and vinyl aromatic hydrocarbon monomer units, said  
copolymer (1-B) having no or at least one polymer block (H) of said vinyl aromatic  
hydrocarbon monomer units, and

(2) a functional group-containing first-order modifier group bonded to said  
hydrogenated polymer (1),

said first-order modified, hydrogenated polymer (A-1) having the following  
characteristics (i) to (iv):

(i) a content of said vinyl aromatic hydrocarbon monomer units of from 0 to 60 %  
by weight, based on the weight of said hydrogenated polymer,

(ii) a vinyl aromatic hydrocarbon block ratio of from 0 to less than 50 % by weight,  
wherein said vinyl aromatic hydrocarbon block ratio is defined as the percent by weight  
of the vinyl aromatic hydrocarbon monomer units contained in said at least one polymer  
block (H) of said vinyl aromatic hydrocarbon monomer units, based on the total weight  
of vinyl aromatic hydrocarbon monomer units contained in said copolymer (1-B),

(iii) a weight average molecular weight of from 20,000 to 2,000,000, and

(iv) a hydrogenation ratio of more than 70 %, as measured with respect to the double bonds in said conjugated diene monomer units,

wherein said functional group containing first-order modifier group (2) comprises at least one functional group represented by a formula selected from the group consisting of the following formulae (a) to (m):

(a)  $\text{—NR}^1 \text{—R}^5 \text{—OH}$ ,

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(b)  $\text{—N} \left[ \text{R}^5 \text{—OH} \right]_2$ ,

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(c)  $\text{—NR}^1 \text{—R}^5 \text{—Si(OR}^6\text{)}_3$ ,

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(d)  $\text{—N} \left[ \text{R}^5 \text{—Si(OR}^6\text{)}_3 \right]_2$ ,

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(e)  $\text{—NR}^1 \text{—R}^5 \text{—CH} \begin{cases} \text{—} \\ \diagup \\ \text{O} \end{cases} \text{—CHR}^6$ ,

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(f)  $\text{—N} \left[ \text{R}^5 \text{—CH} \begin{cases} \text{—} \\ \diagup \\ \text{O} \end{cases} \text{—CHR}^6 \right]_2$ ,

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(g)  $\text{—CR}^1 \begin{cases} \text{—} \\ \diagdown \\ \text{OH} \end{cases} \text{—NR}^6 \text{—R}^5 \text{—NR}^3$ ,

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(h)  $\text{—CR}^1 \begin{cases} \text{—} \\ \diagdown \\ \text{OH} \end{cases} \text{—R}^5 \text{—NR}^2 \text{R}^6$ ,

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(i)  $\text{—CR}^1 \begin{cases} \text{—} \\ \diagdown \\ \text{OH} \end{cases} \text{—R}^5 \text{—OR}^6$ ,

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(j)  $\text{—CR}^1 \begin{cases} \text{—} \\ \diagdown \\ \text{OH} \end{cases} \text{—R}^5 \text{—Si(OR}^6\text{)}_3$ ,

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(k)  $\text{—O} \text{—R}^5 \text{—Si(OR}^6\text{)}_3$ ,

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(l)  $\text{—C} \begin{cases} \text{—NR}^1 \text{—R}^5 \text{—NR}^2 \text{R}^6 \\ \parallel \\ \text{O} \end{cases}$ , and

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(m)  $\text{—C} \begin{cases} \text{—R}^5 \text{—NR}^2 \text{R}^6 \\ \parallel \\ \text{O} \end{cases}$ ,

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wherein, in the formulae (a) to (m):

N represents a nitrogen atom, Si represents a silicon atom, O represents an oxygen atom, C represents a carbon atom, and H represents a hydrogen atom,  
each of R<sup>1</sup> to R<sup>3</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>24</sub> hydrocarbon group which optionally has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxysilane group,

each R<sup>5</sup> independently represents a C<sub>1</sub>-C<sub>48</sub> hydrocarbon group and optionally, independently has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxysilane group,

each R<sup>6</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>8</sub> alkyl group,  
wherein each of R<sup>1</sup> to R<sup>5</sup> optionally, independently has bonded thereto at least one atom selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom and a silicon atom, said at least one atom being present in a linkage other than a hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxysilane group.

14. (Currently amended) The adhesive composition according to claim 13, which further comprises 0.01 to 20 parts by weight of [(C)] a second-order modifier (C) having a functional group which is reactive to said functional group of said modifier group of said first-order modified, hydrogenated polymer (A-1), wherein said

second-order modifier (C) is at least one member selected from the group consisting of a functional monomer and a functional oligomer.

15. (Currently amended) An asphalt composition comprising:  
0.5 to 50 parts by weight of [[the]] a first-order modified, hydrogenated polymer  
(A-1) ~~of claim 1~~, and

100 parts by weight of (F) an asphalt[[.]]

wherein said first-order modified, hydrogenated polymer (A-1) comprises:

(1) a hydrogenated polymer obtained by hydrogenating at least one unhydrogenated polymer selected from the group consisting of (1-A) a polymer comprising conjugated diene monomer units and (1-B) a copolymer comprising conjugated diene monomer units and vinyl aromatic hydrocarbon monomer units, said copolymer (1-B) having no or at least one polymer block (H) of said vinyl aromatic hydrocarbon monomer units, and

(2) a functional group-containing first-order modifier group bonded to said hydrogenated polymer (1).

said first-order modified, hydrogenated polymer (A-1) having the following characteristics (i) to (iv):

(i) a content of said vinyl aromatic hydrocarbon monomer units of from 0 to 60 % by weight, based on the weight of said hydrogenated polymer,

(ii) a vinyl aromatic hydrocarbon block ratio of from 0 to less than 50 % by weight, wherein said vinyl aromatic hydrocarbon block ratio is defined as the percent by weight of the vinyl aromatic hydrocarbon monomer units contained in said at least one polymer

block (H) of said vinyl aromatic hydrocarbon monomer units, based on the total weight of vinyl aromatic hydrocarbon monomer units contained in said copolymer (1-B),

(iii) a weight average molecular weight of from 20,000 to 2,000,000, and

(iv) a hydrogenation ratio of more than 70 %, as measured with respect to the double bonds in said conjugated diene monomer units,

wherein said functional group containing first-order modifier group (2) comprises at least one functional group represented by a formula selected from the group consisting of the following formulae (a) to (m):

(a)  $\text{—NR}^1\text{—R}^5\text{—OH}$ ,

---

(b)  $\text{—N}[\text{R}^5\text{—OH}]_2$ ,

---

(c)  $\text{—NR}^1\text{—R}^5\text{—Si(OR}^6\text{)}_3$ ,

---

(d)  $\text{—N}[\text{R}^5\text{—Si(OR}^6\text{)}_3]_2$ ,

---

(e)  $\text{—NR}^1\text{—R}^5\text{—CH}(\text{O})\text{—CHR}^6$ ,

---

(f)  $\text{—N}[\text{R}^5\text{—CH}(\text{O})\text{—CHR}^6]_2$ ,

---

(g)  $\text{—CR}^1(\text{OH})\text{—NR}^6\text{—R}^5\text{—NR}^3$ ,

---

(h)  $\text{—CR}^1(\text{OH})\text{—R}^5\text{—NR}^2\text{R}^6$ ,

---

(i)  $\text{—CR}^1(\text{OH})\text{—R}^5\text{—OR}^6$ ,

---

(j)  $\text{—CR}^1(\text{OH})\text{—R}^5\text{—Si(OR}^6\text{)}_3$ ,

---

(k)  $\text{—O—R}^5\text{—Si(OR}^6\text{)}_3$ ,

---

(l)  $\text{—C=O—NR}^1\text{—R}^5\text{—NR}^2\text{R}^6$ , and

---

(m)  $\text{—C=O—R}^5\text{—NR}^2\text{R}^6$ ,

---

wherein, in the formulae (a) to (m):

N represents a nitrogen atom, Si represents a silicon atom, O represents an oxygen atom, C represents a carbon atom, and H represents a hydrogen atom,  
each of R<sup>1</sup> to R<sup>3</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>24</sub> hydrocarbon group which optionally has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxy silane group,

each R<sup>5</sup> independently represents a C<sub>1</sub>-C<sub>48</sub> hydrocarbon group and optionally, independently has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxy silane group,

each R<sup>6</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>8</sub> alkyl group,  
wherein each of R<sup>1</sup> to R<sup>5</sup> optionally, independently has bonded thereto at least one atom selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom and a silicon atom, said at least one atom being present in a linkage other than a hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxy silane group.

16. (Currently amended) The asphalt composition according to claim 15, which further comprises 0.01 to 20 parts by weight of [(C)] a second-order modifier (C) having a functional group which is reactive to said functional group of said modifier group of said first-order modified, hydrogenated polymer (A-1), wherein said second-

order modifier (C) is at least one member selected from the group consisting of a functional monomer and a functional oligomer.

17. (Currently amended). A styrene resin composition obtained by subjecting a raw material mixture to radical polymerization, said raw material mixture comprising:

2 to 30 parts by weight, relative to 100 parts by weight of the total of components (A-1) and (G), of [[the]] a first-order modified, hydrogenated polymer (A-1) of ~~claim 1~~, and

98 to 70 parts by weight, relative to 100 parts by weight of the total of components (A-1) and (G), of (G), which is a vinyl aromatic hydrocarbon monomer or a mixture of a vinyl aromatic hydrocarbon monomer and a comonomer copolymerizable with said vinyl aromatic hydrocarbon monomer[[.]]

wherein said first-order modified, hydrogenated polymer (A-1) comprises:

(1) a hydrogenated polymer obtained by hydrogenating at least one unhydrogenated polymer selected from the group consisting of (1-A) a polymer comprising conjugated diene monomer units and (1-B) a copolymer comprising conjugated diene monomer units and vinyl aromatic hydrocarbon monomer units, said copolymer (1-B) having no or at least one polymer block (H) of said vinyl aromatic hydrocarbon monomer units, and

(2) a functional group-containing first-order modifier group bonded to said hydrogenated polymer (1).

said first-order modified, hydrogenated polymer (A-1) having the following characteristics (i) to (iv):

- (i) a content of said vinyl aromatic hydrocarbon monomer units of from 0 to 60 % by weight, based on the weight of said hydrogenated polymer,
- (ii) a vinyl aromatic hydrocarbon block ratio of from 0 to less than 50 % by weight, wherein said vinyl aromatic hydrocarbon block ratio is defined as the percent by weight of the vinyl aromatic hydrocarbon monomer units contained in said at least one polymer block (H) of said vinyl aromatic hydrocarbon monomer units, based on the total weight of vinyl aromatic hydrocarbon monomer units contained in said copolymer (1-B),
- (iii) a weight average molecular weight of from 20,000 to 2,000,000, and
- (iv) a hydrogenation ratio of more than 70 %, as measured with respect to the double bonds in said conjugated diene monomer units,  
wherein said functional group containing first-order modifier group (2) comprises at least one functional group represented by a formula selected from the group consisting of the following formulae (a) to (m):

(a)  $\text{—NR}^1\text{—R}^5\text{—OH}$ ,

---

(b)  $\text{—N}[\text{R}^5\text{—OH}]_2$ ,

---

(c)  $\text{—NR}^1\text{—R}^5\text{—Si(OR}^6\text{)}_3$ ,

---

(d)  $\text{—N}[\text{R}^5\text{—Si(OR}^6\text{)}_3]_2$ ,

---

(e)  $\text{—NR}^1\text{—R}^5\text{—CH}(\text{O})\text{—CHR}^6$ ,

---

(f)  $\text{—N}[\text{R}^5\text{—CH}(\text{O})\text{—CHR}^6]_2$ ,

---

(g)  $\text{—CR}^1(\text{OH})\text{—NR}^6\text{—R}^5\text{—NR}^3$ ,

---

(h)  $\text{—CR}^1(\text{OH})\text{—R}^5\text{—NR}^2\text{R}^6$ ,

---

(i)  $\text{—CR}^1(\text{OH})\text{—R}^5\text{—OR}^6$ ,

---

(j)  $\text{—CR}^1(\text{OH})\text{—R}^5\text{—Si(OR}^6\text{)}_3$ ,

---

(k)  $\text{—O—R}^5\text{—Si(OR}^6\text{)}_3$ ,

---

(l)  $\text{—C=O—NR}^1\text{—R}^5\text{—NR}^2\text{R}^6$ , and

---

(m)  $\text{—C=O—R}^5\text{—NR}^2\text{R}^6$ ,

---

wherein, in the formulae (a) to (m):

N represents a nitrogen atom, Si represents a silicon atom, O represents an oxygen atom, C represents a carbon atom, and H represents a hydrogen atom,  
each of R<sup>1</sup> to R<sup>3</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>24</sub> hydrocarbon group which optionally has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxysilane group,

each R<sup>5</sup> independently represents a C<sub>1</sub>-C<sub>48</sub> hydrocarbon group and optionally, independently has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C<sub>1</sub>-C<sub>24</sub> alkoxysilane group,

each R<sup>6</sup> independently represents a hydrogen atom or a C<sub>1</sub>-C<sub>8</sub> alkyl group,  
wherein each of R<sup>1</sup> to R<sup>5</sup> optionally, independently has bonded thereto at least one atom selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom and a silicon atom, said at least one atom being present in a linkage other than a hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxysilane group.

18. (Currently amended) The styrene resin composition according to claim 17. wherein said raw material mixture further comprises 0.01 to 20 parts by weight, relative to 100 parts by weight of the total of components (A-1) and (G), of [(C)] a second-order modifier (C) having a functional group which is reactive to said functional group of said modifier group of said first-order modified, hydrogenated

polymer (A-1), wherein said second-order modifier (C) is at least one member selected from the group consisting of a functional monomer and a functional oligomer.

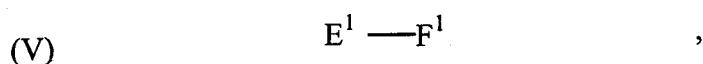
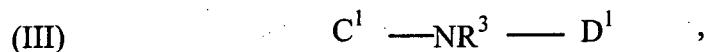
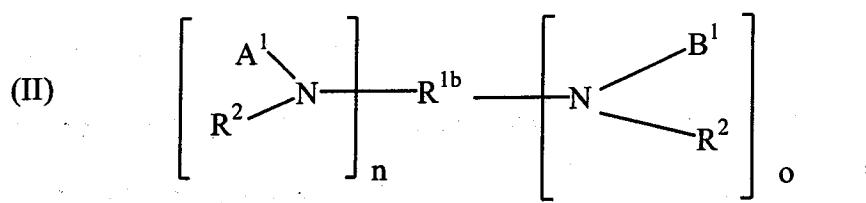
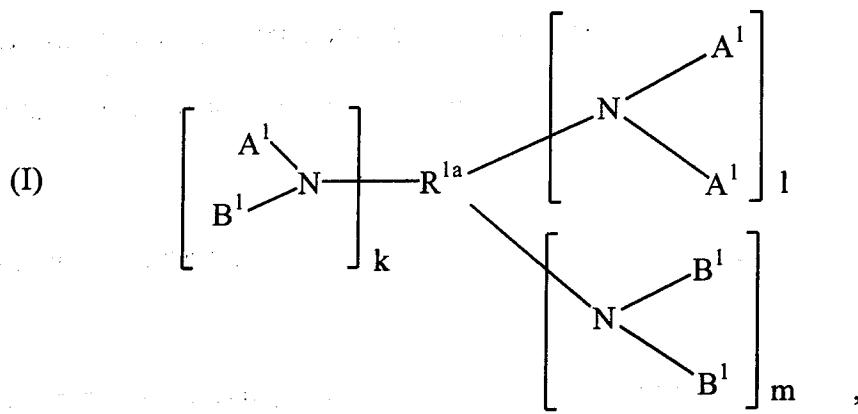
19. (Currently amended) A method for producing the styrene resin composition of claim 17, comprising:

(1) providing a raw material mixture comprising ~~[[the]]~~ said first-order modified, hydrogenated polymer (A-1) of claim 1, (G) a vinyl aromatic hydrocarbon monomer or a mixture of a vinyl aromatic hydrocarbon monomer and a comonomer copolymerizable with said vinyl aromatic hydrocarbon monomer, and optionally at least one member selected from the group consisting of ~~[[C]]~~ a second-order modifier (C) having a functional group which is reactive to said functional group of said modifier group of said first-order modified, hydrogenated polymer (A-1), wherein said second-order modifier (C) is at least one member selected from the group consisting of a functional monomer and a functional oligomer, and ~~[[B]]~~ a reinforcing filler (B), and

(2) subjecting said raw material mixture to radical polymerization, thereby obtaining a styrene resin composition.

20-46. (Cancelled).

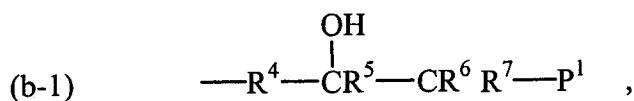
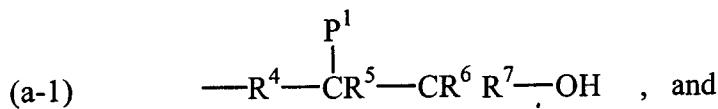
47. (New) The modified polymer composition according to claim 8, wherein said first-order modified, hydrogenated polymer (A-1) is represented by a formula selected from the group consisting of the following formulae (I) to (V):



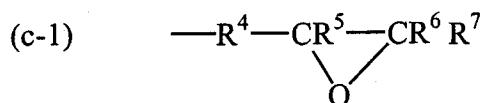
wherein:

$A^1$  represents a unit which is represented by any one of the following formulae

(a-1) and (b-1):

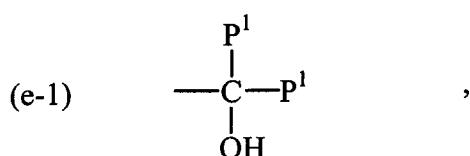
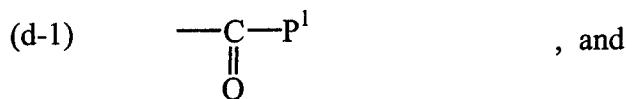


$\text{B}^1$  represents a unit which is represented by the following formula (c-1):

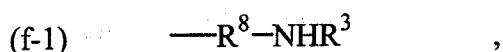


$\text{C}^1$  represents a unit which is represented by any one of the following formulae

(d-1) and (e-1):



$\text{D}^1$  represents a unit which is represented by the following formula (f-1):



$\text{E}^1$  represents a unit which is represented by the following formula (g-1):

(g-1)  $\overline{-R^9-P^1}$  , and

$F^1$  represents a unit which is represented by any one of the following formulae

(h-1) to (j-1):

$$(h-1) \quad \text{---NH---R}^{10} \text{---Si(OR}^{11})_3 \quad ,$$

$$(i-1) \quad \text{---CR}^{12}\text{---R}^{13}\text{---O---R}^{14}\text{---Si(OR}^{11}\text{)}_3$$

|  
OH

, and

$$(j-1) \quad \text{---} \underset{\text{OH}}{\text{CR}^{12}} \text{---} \text{R}^{15} \text{---} \text{Si}(\text{OR}^{11})_3$$

wherein, in the formulae (I) to (III) and (a-1) to (j-1):

N represents a nitrogen atom, Si represents a silicon atom, O represents an oxygen atom, C represents a carbon atom, and H represents a hydrogen atom.

P<sup>1</sup> represents said hydrogenated polymer (1),

$R^{1a}$  represents a trivalent aliphatic C<sub>1</sub>-C<sub>48</sub> hydrocarbon group,

each of R<sup>1b</sup>, R<sup>4</sup>, R<sup>8</sup> to R<sup>10</sup> and R<sup>13</sup> to R<sup>15</sup> independently represents a C<sub>1</sub>-C<sub>48</sub>

alkylene group,

each of R<sup>2</sup>, R<sup>3</sup> and R<sup>11</sup> independently represents a C<sub>1</sub>-C<sub>48</sub> alkyl group, a C<sub>6</sub>-C<sub>48</sub> aryl group, an alkylaryl group comprised of C<sub>1</sub>-C<sub>48</sub> alkyl and C<sub>6</sub>-C<sub>48</sub> aryl, an aralkyl group comprised of C<sub>1</sub>-C<sub>48</sub> alkyl and C<sub>6</sub>-C<sub>48</sub> aryl, or a C<sub>3</sub>-C<sub>48</sub> cycloalkyl group,

wherein each of  $R^{1a}$ ,  $R^{1b}$ ,  $R^3$ ,  $R^4$ ,  $R^8$  to  $R^{10}$  and  $R^{13}$  to  $R^{15}$  optionally,

independently has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a  $C_1$ - $C_{24}$  alkoxysilane group,

each of  $R^5$  to  $R^7$  and  $R^{12}$  independently represents a hydrogen atom, a  $C_1$ - $C_{48}$  alkyl group, a  $C_6$ - $C_{48}$  aryl group, an alkylaryl group comprised of  $C_1$ - $C_{48}$  alkyl and  $C_6$ - $C_{48}$  aryl, an aralkyl group comprised of  $C_1$ - $C_{48}$  alkyl and  $C_6$ - $C_{48}$  aryl, or a  $C_3$ - $C_{48}$  cycloalkyl group,

wherein each of  $R^{1a}$ ,  $R^{1b}$ ,  $R^2$  to  $R^4$  and  $R^8$  to  $R^{15}$  optionally, independently has bonded thereto at least one atom selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom and a silicon atom, said at least one atom being present in a linkage other than a hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxysilane group, and

each of  $k$ ,  $l$ ,  $m$  and  $o$  is independently an integer of 0 or more, provided that both  $k$  and  $l$  are not simultaneously 0, and  $n$  is an integer of 1 or more.